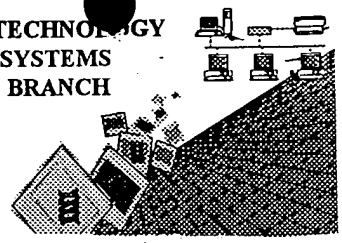
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/089,292
Source: PCT10
Date Processed by STIC: 2/25/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

PCT10

Raw Sequence Listing Error Summary

ERROR DETECTED | **SUGGESTED CORRECTION** | SERIAL NUMBER: 10/089,292

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10 ✓	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT10

Does Not Comply
Corrected Diskette Needed

Error on p 2

RAW SEQUENCE LISTING DATE: 02/25/2003
PATENT APPLICATION: **US/10/089,292** TIME: 12:11:36

Input Set : **A:\Serial No. 10-089,292 Sequence Listing**
Output Set: **N:\CRF4\02252003\J089292.raw**

```
  3 <110> APPLICANT: NG, Mun Hon
  4       IM, Stanley
  5       ZHANG, Ji-Zhong
  7 <120> TITLE OF INVENTION: NOVEL HEV ANTIGENIC PEPTIDE AND METHODS
  9 <130> FILE REFERENCE: IEC010036US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/089,292
 12 <141> CURRENT FILING DATE: 2000-09-28
 14 <160> NUMBER OF SEQ ID NOS: 3
 16 <170> SOFTWARE: PatentIn version 3.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 642
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Hepatitis E virus
 23 <400> SEQUENCE: 1
 24 cagctgttct actctcgtcc cgtcgtctca gccaatggcg agccgactgt taagctttat     60
 26 acatctgtag agaatgctca gcaggataag ggtattgcaa tcccgcatga catcgacctc    120
 28 ggggagtctc gtgtagttat tcaggattat gacaaccaac atgagcagga ccgaccgaca    180
 30 ccttccccag ccccatcgcg ccctttttct gtcctccgag ctaatgatgt gctttggctt    240
 32 tctctcaccg ctgccgagta tgaccagtcc acttacggct cttcgaccgg cccagtctat    300
 34 gtctctgact ctgtgacctt ggttaatgtt gcgaccggcg cgcaggccgt tgcccggtca    360
 36 ctcgactgga ccaaggtcac acttgatggt cgcccccttt ccaccatcca gcagtattca    420
 38 aagaccttct ttgtcctgcc gctccgcggt aagctctcct tttgggaggc aggtactact    480
 40 aaagccgggt acccttataa ttataacacc actgctagtg accaactgct cgttgagaat    540
 42 gccgctgggc atcgggttgc tatttccact tacaccacta gcctgggtgc tggtcccgtc    600
 44 tctatttccg cggttgctgt tttagccccc cctccgcgct ag                      642
 47 <210> SEQ ID NO: 2
 48 <211> LENGTH: 213
 49 <212> TYPE: PRT
 50 <213> ORGANISM: HEV
 52 <400> SEQUENCE: 2
 54 Gln Leu Phe Tyr Ser Arg Pro Val Val Ser Ala Asn Gly Glu Pro Thr
 55 1               5                  10                  15
 58 Val Lys Leu Tyr Thr Ser Val Glu Asn Ala Gln Gln Asp Lys Gly Ile
 59             20                  25                  30
 62 Ala Ile Pro His Asp Ile Asp Leu Gly Glu Ser Arg Val Val Ile Gln
 63         35                  40                  45
 66 Asp Tyr Asp Asn Gln His Glu Gln Asp Arg Pro Thr Pro Ser Pro Ala
 67     50                  55                  60
 70 Pro Ser Arg Pro Phe Ser Val Leu Arg Ala Asn Asp Val Leu Trp Leu
 71 65                  70                  75                  80
 74 Ser Leu Thr Ala Ala Glu Tyr Asp Gln Ser Thr Tyr Gly Ser Ser Thr
 75                 85                  90                  95
 78 Gly Pro Val Tyr Val Ser Asp Ser Val Thr Leu Val Asn Val Ala Thr
```

RAW SEQUENCE LISTING DATE: 02/25/2003
PATENT APPLICATION: **US/10/089,292** TIME: 12:11:36

Input Set : **A:\Serial No. 10-089,292 Sequence Listing**
Output Set: **N:\CRF4\02252003\J089292.raw**

```
79              100                 105                 110
82 Gly Ala Gln Ala Val Ala Arg Ser Leu Asp Trp Thr Lys Val Thr Leu
83          115                 120                 125
86 Asp Gly Arg Pro Leu Ser Thr Ile Gln Gln Tyr Ser Lys Thr Phe Phe
87      130                 135                 140
90 Val Leu Pro Leu Arg Gly Lys Leu Ser Phe Trp Glu Ala Gly Thr Thr
91 145                 150                 155                 160
94 Lys Ala Gly Tyr Pro Tyr Asn Tyr Asn Thr Thr Ala Ser Asp Gln Leu
95                  165                 170                 175
98 Leu Val Glu Asn Ala Ala Gly His Arg Val Ala Ile Ser Thr Tyr Thr
99              180                 185                 190
102 Thr Ser Leu Gly Ala Gly Pro Val Ser Ile Ser Ala Val Ala Val Leu
103         195                 200                 205
106 Ala Pro Pro Pro Arg
107     210
110 <210> SEQ ID NO: 3
111 <211> LENGTH: 34
112 <212> TYPE: DNA
113 <213> ORGANISM: DNA (genomic)
115 <400> SEQUENCE: 3
116 ggcgaatccc tagcgcggag ggggggctaa aaca                          34
```

– invalid response – see error summary sheet item 10

VERIFICATION SUMMARY DATE: 02/25/2003
PATENT APPLICATION: **US/10/089,292** TIME: 12:11:37

Input Set : **A:\Serial No. 10-089,292 Sequence Listing**
Output Set: **N:\CRF4\02252003\J089292.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number